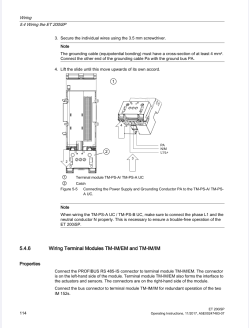
FIELD INSTALLATION QUICK GUIDE

Installation Instructions

6ES7138-7EC00-0AA0

AC distributed I/O power supply



PRODUCT	6ES7138-7EC00-0AA0
FAMILY	SIMATIC ET 200iSP
FUNCTION	AC distributed I/O power supply
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Siemens documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

Rated input voltage	120/230 V AC
Permitted input-voltage range	85 to 264 V AC
Permitted line frequency	47 to 63 Hz
Maximum input current	1.04 A
Maximum inrush current	28 A
Typical power-loss calculation	5 W + 1.2 x total electronics-module power loss

02 PREPARATION AND CONNECTION

- Switch off the AC supply before wiring or disconnecting its cable.
- Use TM-PS-A UC and TM-PS-B UC for the documented redundant arrangement.
- Secure the terminal-module screws before operating the connection slide.
- Connect L1, N and the documented equipotential-bonding conductor correctly.

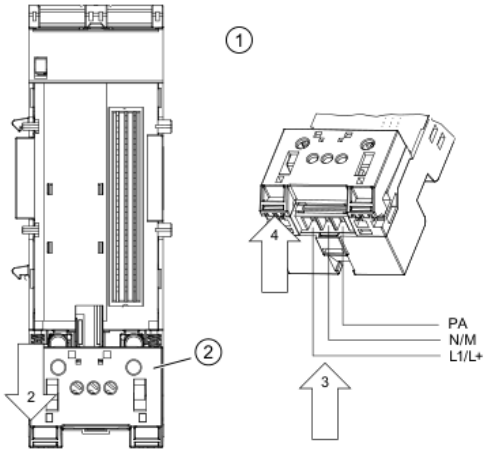
03 OFFICIAL INSTALLATION REFERENCE

3. Secure the individual wires using the 3.5 mm screwdriver.

Note

The grounding cable (equipotential bonding) must have a cross-section of at least 4 mm². Connect the other end of the grounding cable Pa with the ground bus PA.

4. Lift the slide until this move upwards of its own accord.



① Terminal module TM-PS-A/ TM-PS-A UC
② Catch

Figure 5-5 Connecting the Power Supply and Grounding Conductor PA to the TM-PS-A/ TM-PS-A UC.

Note

When wiring the TM-PS-A UC / TM-PS-B UC, make sure to connect the phase L1 and the neutral conductor N properly. This is necessary to ensure a trouble-free operation of the ET 200iSP.

5.4.6 Wiring Terminal Modules TM-IM/EM and TM-IM/IM

Properties

Connect the PROFIBUS RS 485-IS connector to terminal module TM-IM/EM. The connector is on the left-hand side of the module. Terminal module TM-IM/EM also forms the interface to the actuators and sensors. The connectors are on the right-hand side of the module.

Connect the bus connector to terminal module TM-IM/IM for redundant operation of the two IM 152s.

Official manufacturer page reproduced at its original aspect ratio.

04 COMMISSIONING CHECKS

01	Confirm the complete 7EC00 AC article number and UC terminal modules.
02	Verify the approved 6 A characteristic-C input protection per station.
03	Check L1, N and the documented equipotential-bonding connections.
04	Apply the correct voltage, temperature and mounting-position current limit.
05	Verify supply indication and diagnostic information through IM 152.
06	In explosive atmospheres, wait two minutes after unlocking before removal.

05 CONTROLLED DOCUMENT

Official source	Siemens 6ES7138-7EC00-0AA0 Data Sheet, 2026-11-06, pp.1-2; ET200iSP A5E00247483-07, pp.113-114 and 224-226.
Product record	6ES7138-7EC00-0AA0
Manufacturer	Siemens
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

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